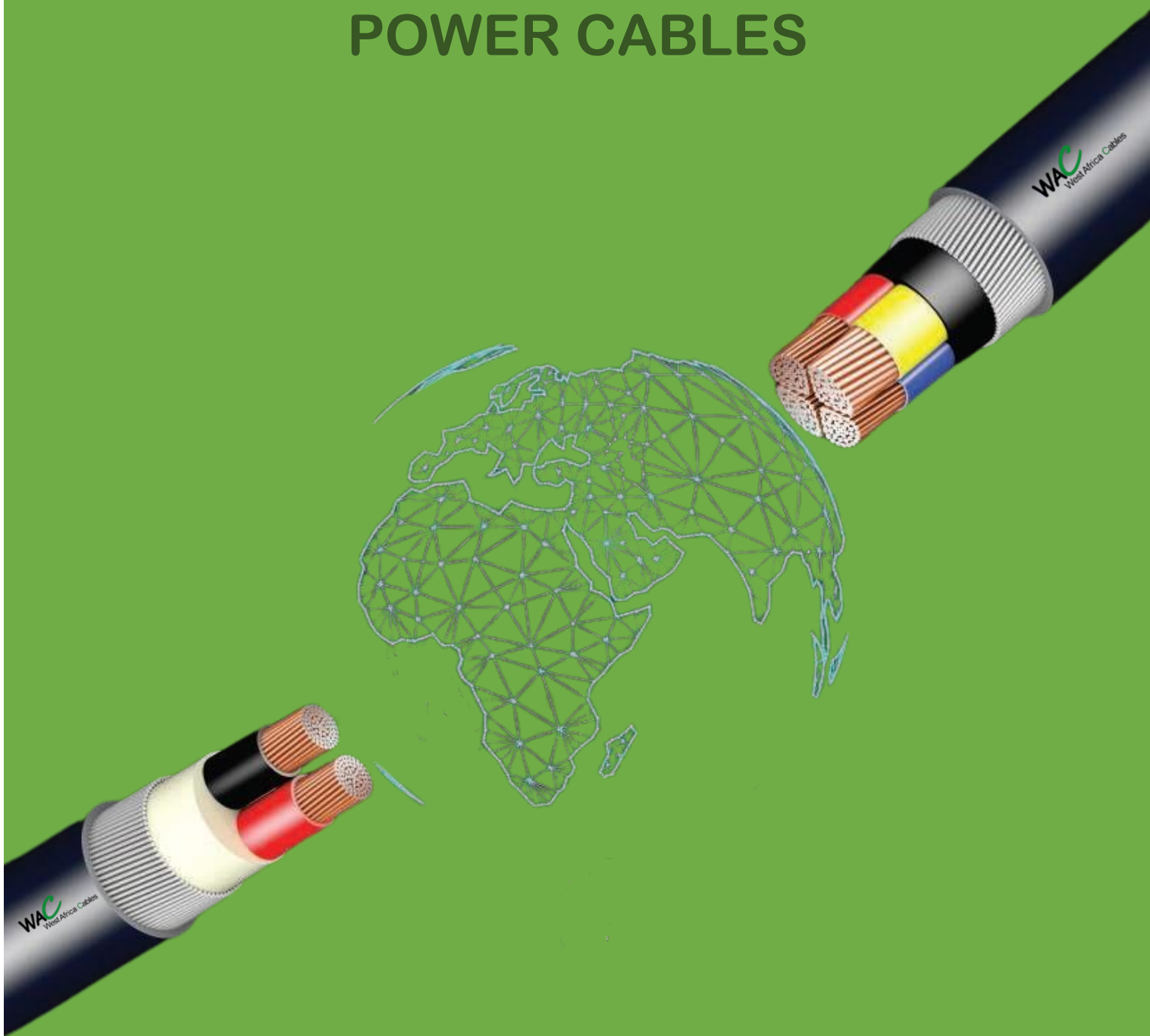


LOW VOLTAGE POWER CABLES





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INTRODUCTION

This catalog provides comprehensive technical information on WAC Cables' advanced low-voltage cable solutions. Our portfolio includes cables with PVC and XLPE insulation for Copper or Aluminum conductors, available in armored and unarmored configurations, as well as single and multicore constructions. With a variety of sheathing options, WAC Cables offers innovative products categorized by insulation type and armoring, along with detailed technical specifications and constructional data.

Product Specifications

All cable designs presented in this catalog adhere to IEC 60502 standards. Additionally, WAC Cables can deliver specialized cable designs tailored to customer needs, such as cables with enhanced fire resistance, superior environmental protection, or custom sheathing materials and colors. We also cater to bespoke requirements by manufacturing cables with low smoke and halogen-free materials, ensuring optimal performance and safety in critical applications.

Cable Selection

Selecting the right cable is crucial for optimal performance and regulatory compliance. Factors such as installation conditions, local standards, and specific application requirements must be considered. Our expert team at WAC Cables is available to provide tailored guidance and recommend the most suitable cable designs to meet your unique project needs.

Conductors

WAC Cables' conductors are precision-engineered using Copper or Aluminum in circular stranded (compacted or non-compacted), shaped, or solid configurations, conforming to Class 1 and Class 2 specifications under IEC 60228. These high-quality conductors are designed for superior electrical and mechanical performance.

Insulation

Our cables feature insulation materials designed to meet rigorous operational demands:

XLPE Insulation: Engineered for continuous operation at 90°C, conforming to IEC 60502.

PVC Insulation: Manufactured to Type A specifications under IEC 60502-1, ensuring reliable performance.

Assembly

Two, three, or four insulated conductors are precisely laid with non-hygroscopic fillers and encased in an extruded PVC bedding layer. For non-armored cables, this layer is optional when the cable shape remains effectively circular.

Color Code

WAC Cables offers a variety of color codes to align with customer and regional preferences:

Standard Code: Red, Yellow, Blue, Black, and other industry-standard configurations.

Customized Options: Tailored to project-specific needs.

Armor

We provide robust armoring options to ensure mechanical protection:

Galvanized Steel Wires: Helically applied for single-core cables.

Double Steel Tapes: Utilized for multi-core cables.

Outer Sheath

Our outer sheaths are extruded using high-performance PVC Type ST2, compliant with IEC 60502-1 standards. Specialized sheath materials, such as fire-retardant, anti-termite, UV-resistant, and oil-resistant PVC, are available upon request. Additional options include materials like LLDPE, MDPE, HDPE, and CPE for diverse application needs.

Fire Performance

WAC Cables excels in providing flame-retardant cables that comply with IEC 60332-3 standards. For smoke-sensitive environments, we offer low smoke halogen-free (LSHF) sheathing materials in accordance with IEC 60502-1, ensuring minimal environmental impact and maximum safety.

Quality Assurance

WAC Cables upholds a robust Quality Assurance framework to guarantee the reliability and consistency of every product. Our processes are meticulously aligned with international standards, covering every stage from order processing to production, testing, and delivery. Regular audits and certifications reflect our unwavering commitment to excellence and customer satisfaction.

PVC INSULATED / PVC SHEATHED CABLES

COPPER CONDUCTORS

STANDARD: IEC 60502 – 1

600/1000 VOLTS



CABLE CORE(S)

Nominal Area mm ²	No. of Wires No	Approx. Conductor Diameter mm	Nominal Insulation Thickness mm
1x1.5 re	1	1.38	0.80
1x1.5 rm	7	1.56	0.80
1x2.5 re	1	1.78	0.80
1x2.5 rm	7	2.01	0.80
1x4 re	1	2.25	1.00
1x4 rm	7	2.55	1.00
1x6 re	1	2.76	1.00
1x6 rm	7	3.12	1.00
1x10 re	1	3.57	1.00
1x10 rm	7	4.01	1.00
1x16 rm	7	5.03	1.00
1x25 rm	7	6.30	1.20
1x35 rm	19	7.44	1.20
1x50 rm	19	8.80	1.40
1x70 rm	19	10.50	1.40
1x95 rm	19	12.40	1.60
1x120 rm	37	14.20	1.60
1x150 rm	37	15.90	1.70
1x185 rm	37	17.40	2.00
1x240 rm	61	20.20	2.00
1x300 rm	61	22.50	2.20
1x400 rm	61	25.40	2.20
1x500 rm	61	28.50	2.40
1x630 rm	91	32.80	2.80

UNARMoured

Nominal Sheath Thickness mm	Approx. Overall Diameter mm	Approx. Weight Kg/Km	Packing meters
1.4	6	55	1000
1.4	7	65	1000
1.4	8	75	1000
1.4	9	95	1000
1.4	10	115	1000
1.4	9	155	1000
1.4	12	230	1000
1.4	13	335	1000
1.4	15	440	1000
1.5	17	575	1000
1.5	19	735	1000
1.7	21	1075	1000
1.7	23	1325	1000
1.7	25	1600	1000
1.8	28	2000	1000
2	31	2500	1000
2	35	3250	1000
2	35	4150	500
2.1	39	5250	500
2.2	43	6700	500

CABLE CORE(S) - 2-CORE

Nominal Area (mm ²)	No. of Wires (No.)	Approx. Conductor Diameter (mm)	Nominal Insulation Thickness (mm)
2x1.5 re	1	1.38	0.80
2x1.5 rm	7	1.56	0.80
2x2.5 re	1	1.78	0.80
2x2.5 rm	7	2.01	0.80
2x4 re	1	2.25	1.00
2x4 rm	7	2.55	1.00
2x6 re	1	2.76	1.00
2x6 rm	7	3.12	1.00
2x10 re	1	3.57	1.00
2x10 rm	7	4.01	1.00
2x16 rm	7	5.03	1.00
2x25 rm	7	6.30	1.20
2x35 rm	7	7.44	1.20

UNARMoured - 2-CORE

Nominal Sheath Thickness (mm)	Approx. Overall Diameter (mm)	Approx. Weight (Kg/Km)	Packing (meters)
1.8	12	200	1000
1.8	13	225	1000
1.8	14	275	1000
1.8	16	325	1000
1.8	17	350	1000
1.8	19	400	1000
1.8	20	475	1000
1.8	22	550	1000
1.8	24	725	1000
1.8	25	900	1000
1.8	26	1025	1000
1.8	26	1300	1000

Key:

re: Round Solid
rm: Round Stranded

Colour Code (1):

1 Core: Black (Red on request)
2 Core: Red, Black

Colour Code (2):

1 Core: Brown or Blue
2 Core: Brown, Blue

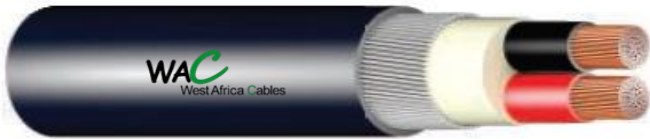
Single core cables are Aluminium Armoured as per IEC 60502-1 recommendation

PVC INSULATED / PVC SHEATHED CABLES

COPPER CONDUCTORS

STANDARD: IEC 60502 – 1

600/1000 VOLTS



ALUMINIUM WIRE ARMoured

Nominal Alum/Steel Wire Dia.	Nominal Sheath Thickness	Approx. Overall Diameter	Approx. Weight	Packing
mm	mm	mm	Kg/Km	meters
-	-	-	-	-
0.80	1.80	14.00	300	1000
0.80	1.80	15.00	375	1000
0.80	1.80	16.00	500	1000
0.80	1.80	17.00	625	1000
0.80	1.80	18.00	775	1000
1.25	1.80	20.00	835	1000
1.25	1.80	22.00	1075	1000
1.60	1.80	24.00	1385	1000
1.60	1.80	26.00	1700	1000
1.60	1.80	27.00	2025	1000
1.60	1.80	31.00	2450	500
1.60	1.90	34.00	3100	500
1.60	2.10	37.00	3900	500
2.00	2.00	41.00	4875	500
2.00	2.10	42.00	6050	500
2.00	2.40	50.00	7625	500

ALUMINIUM TAPE ARMoured

Nominal Alum/Steel Tape Thickness	Nominal Sheath Thickness	Approx. Overall Diameter	Approx. Weight	Packing
mm	mm	mm	Kg/Km	meters
-	-	-	-	-
0.50	1.80	14.00	300	1000
0.50	1.80	15.00	375	1000
0.50	1.80	17.00	500	1000
0.50	1.80	18.00	625	1000
0.50	1.80	20.00	775	1000
0.50	1.80	21.00	1025	1000
0.50	1.80	24.00	1325	1000
0.50	1.80	25.00	1575	1000
0.50	1.80	27.00	1825	1000
0.50	1.80	29.00	2300	1000
0.50	1.90	33.00	2950	500
0.50	2.10	37.00	3800	500
0.50	2.20	40.00	4575	500
0.50	2.20	43.00	5725	500
0.50	2.30	48.00	7225	500

STEEL WIRE ARMoured

Nominal Alum/Steel Wire Dia. (mm)	Nominal Sheath Thickness (mm)	Approx. Overall Diameter (mm)	Approx. Weight (Kg/Km)	Packing (meters)
-	-	-	-	-
0.80	1.80	15.00	425	1000
0.80	1.80	17.00	500	1000
0.80	1.80	18.00	525	1000
1.25	1.80	19.00	700	1000
1.25	1.80	20.00	775	1000
1.25	1.80	21.00	825	1000
1.25	1.80	22.00	950	1000
1.25	1.80	24.00	1150	1000
1.60	1.80	27.00	1750	1000
1.60	1.80	29.00	2050	1000

DOUBLE STEEL TAPE ARMoured

Nominal Alum/Steel Tape Thickness (mm)	Nominal Sheath Thickness (mm)	Approx. Overall Diameter (mm)	Approx. Weight (Kg/Km)	Packing (meters)
-	-	-	-	-
0.20	1.80	15.00	325	1000
0.20	1.80	16.00	400	1000
0.20	1.80	17.00	425	1000
0.20	1.80	18.00	475	1000
0.20	1.80	18.00	500	1000
0.20	1.80	19.00	600	1000
0.20	1.80	21.00	825	1000
0.20	1.80	25.00	1150	1000
0.20	1.80	27.00	1450	1000

Tolerance Range:

Overall Diameter: $\pm 2\%$, $\pm 8\%$

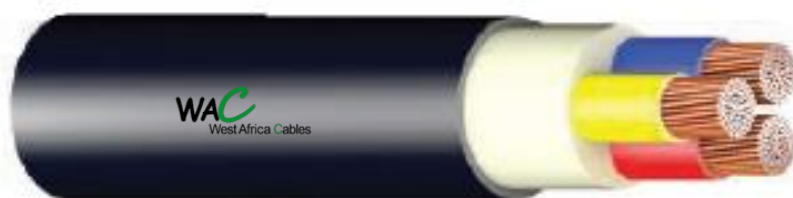
Packing: $\pm 5\%$

PVC INSULATED / PVC SHEATHED CABLES

COPPER CONDUCTORS

STANDARD: IEC 60502 – 1

600/1000 VOLTS



CABLE CORE(S)

Nominal Area mm ²	No. of Wires No	Approx. Conductor Diameter mm	Nominal Insulation Thickness mm
3x1.5 re	1	1.38	0.80
3x1.5 rm	7	1.56	0.80
3x2.5 rm	7	1.78	0.80
3x4 rm	7	2.01	1.00
3x6 rm	7	2.76	1.00
3x10 rm	7	3.12	1.00
3x16 rm	7	4.01	1.00
3x25 rm	7	5.03	1.20
3x35 rm	7	5.92	1.40
3x50 rm	19	8.80	1.40
3x70 rm	19	10.55	1.40
3x95 rm	19	12.47	1.60
3x120 rm	37	14.60	1.60
3x150 rm	37	17.45	1.80
3x185 rm	37	19.22	2.00
3x240 rm	61	22.25	2.20
3x300 rm	61	25.38	2.60
3x400 rm	61	28.80	2.80
3x500 rm	61	32.80	2.80

UNARMoured

Nominal Sheath Thickness mm	Approx. Overall Diameter mm	Approx. Weight Kg/Km	Packing meters
1.8	13	225	1000
1.8	14	225	1000
1.8	15	285	1000
1.8	16	375	1000
1.8	17	475	1000
1.8	18	610	1000
1.8	19	730	1000
1.8	21	1275	1000
2	32	1950	500
2	34	2760	500
2	45	3625	500
2.2	56	4425	250
2.4	64	5750	250
2.7	63	8800	250
3.1	77	13850	250
3.4	86	17500	250

CABLE CORE(S)

	Ph	Ne	Ph	Ne	Ph	Ne
3x10 mm ² + 6 mm ²	7	7	4.01	3.12	1.00	1.00
3x16 mm ² + 10 mm ²	7	7	5.03	4.01	1.00	1.00
3x25 mm ² + 16 mm ²	7	7	6.3	5.03	1.20	1.00
3x35 mm ² + 16 mm ²	6	7	-	5.03	1.20	1.00
3x50 mm ² + 25 mm ²	6	7	-	6.30	1.40	1.20
3x70 mm ² + 35 mm ²	12	7	-	7.44	1.40	1.20
3x95 mm ² + 50 mm ²	15	19	-	8.80	1.60	1.40
3x120 mm ² + 70 mm ²	18	19	-	10.60	1.60	1.40
3x150 mm ² + 70 mm ²	18	19	-	10.60	1.80	1.40
3x185 mm ² + 95 mm ²	30	19	-	12.40	2.00	1.60
3x240 mm ² + 120 mm ²	34	37	-	14.00	2.20	1.60
3x300 mm ² + 150 mm ²	34	37	-	15.50	2.40	1.80
3x400 mm ² + 185 mm ²	53	37	-	17.40	2.60	2.00
3x500 mm ² + 240 mm ²	53	61	-	20.00	2.80	2.20

UNARMoured

1.8	21	730	1000
1.8	23	1000	1000
1.8	27	1450	1000
1.8	27	1600	1000
1.8	31	2150	500
1.9	35	2950	500
2	39	3975	500
2.2	43	4975	500
2.3	47	5925	500
2.4	52	7425	250
2.8	58	9575	250
3	64	11850	250
3.2	72	15025	250
3.5	79	19025	250

Colour Code (1):

3 Cores: Red, Yellow, Blue

3½ Cores: Red, Yellow, Blue, Black

Colour Code (2):

3 Cores: Brown, Black, Grey

3½ Cores: Blue, Brown, Black, Grey

For 3½ core, neutral conductors are round stranded.

For sectoral conductors, the number of wires mentioned is the minimum number of wires in accordance with IEC 60228.

PVC INSULATED / PVC SHEATHED CABLES

COPPER CONDUCTORS

STANDARD: IEC 60502 – 1

600/1000 VOLTS



STEEL WIRE ARMoured

Steel Wire Dia. mm	Nominal Sheath Thickness mm	Approx. Overall Diameter mm	Approx. Weight Kg/km	Packing Meters
0.80	1.80	16.00	465	1000
1.25	1.80	18.00	685	1000
1.25	1.80	19.00	725	1000
1.25	1.80	20.00	830	1000
1.25	1.80	21.00	1000	1000
1.25	1.80	22.00	1150	1000
1.25	1.80	24.00	1350	1000
1.60	1.80	29.00	1975	1000
1.60	2.10	31.00	2310	1000
1.60	2.30	33.00	2535	1000
2.00	2.10	40.00	4205	500
2.00	2.30	45.00	5150	500
2.00	2.30	49.00	6050	500
2.50	2.60	55.00	7750	500
2.50	2.60	60.00	9300	250
3.15	3.40	84.00	18400	250
3.15	3.60	92.00	22500	250

DOUBLE STEEL TAPE ARMoured

St. Tape Thickness mm	Nominal Sheath Thickness mm	Approx. Overall Diameter mm	Approx. Weight Kg/km	Packing meters
0.20	1.80	15.00	360	1000
0.20	1.80	16.00	450	1000
0.20	1.80	17.00	480	1000
0.20	1.80	18.00	540	1000
0.20	1.80	20.00	870	1000
0.20	1.80	21.00	1050	1000
0.20	1.80	26.00	1425	1000
0.20	1.80	29.00	1635	1000
0.20	2.00	33.00	2150	500
0.20	2.20	37.00	2900	500
0.20	2.30	42.00	4275	500
0.20	2.30	47.00	5150	500
0.50	2.30	55.00	7250	250
0.50	2.60	63.00	9650	250
0.50	2.90	75.00	12350	250
0.50	3.10	84.00	16775	250
0.50	3.30	88.00	18900	250

STEEL WIRE ARMoured

1.25	1.80	23.00	1175	1000
1.60	1.80	26.00	1650	1000
1.60	1.90	30.00	2375	1000
1.60	2.10	33.00	2750	1000
2.00	2.30	39.00	4200	500
2.00	2.30	44.00	5425	500
2.50	2.60	52.00	8100	500
2.50	2.60	57.00	9775	250
2.50	3.10	70.00	12250	250
2.50	3.10	77.00	14775	250
3.00	3.50	79.00	19250	250
3.15	3.70	85.00	23625	250

DOUBLE STEEL TAPE ARMoured

0.20	1.80	21.00	850	1000
0.20	2.00	24.00	1150	1000
0.20	2.20	28.00	1750	1000
0.20	2.30	32.00	2450	1000
0.20	2.30	39.00	4600	500
0.50	2.30	42.00	6400	500
0.50	2.50	49.00	8675	500
0.50	2.70	55.00	8250	250
0.50	3.10	66.00	12875	250
0.50	3.30	74.00	16175	250
0.80	3.60	83.00	21050	250

Tolerance range:

Overall diameter: -2%, +8%

Packing: ± 5%

PVC INSULATED / PVC SHEATHED CABLES

COPPER CONDUCTORS

STANDARD: IEC 60502 – 1

600/1000 VOLTS



CABLE CORE(S)

Nominal Area mm ²	No. of Wires No	Approx. Conductor Diameter mm	Nominal Insulation thickness mm
4x 1.5 re	1	1.38	0.80
4x1.5 rm	7	1.56	0.80
4x 2.5 re	1	1.78	0.80
4x 2.5 rm	7	2.01	0.80
4x 4 re	1	2.25	1.00
4x4 rm	7	2.55	1.00
4 x 6 re	1	2.76	1.00
4x 6 rm	7	3.12	1.00
4x10 re	1	3.57	1.00
4 x 10 rm	7	4.01	1.00
4 x 16 rm	7	5.03	1.00
4 x 25 rm	7	6.30	1.20
4 x 35 rm	6	-	1.20
4 x 50 rm	6	-	1.40
4 x 70 rm	12	-	1.40
4 x 95 rm	15	-	1.60
4 x 120 rm	18	-	1.60
4 x 150 rm	18	-	1.80
4 x 185 rm	30	-	2.00
4 x 240 rm	34	-	2.20
4 x300 rm	34	-	2.40
4 x 400 rm	53	-	2.60
4 x 500 rm	53	-	2.80

UNARMoured

Nominal Sheath Thickness mm	Approx. Overall Diameter mm	Approx. Weight Kg/km	Packing meters
1.8	14	250	1000
1.8	14	275	1000
1.8	15	325	1000
1.8	15	325	1000
1.8	17	450	1000
1.8	18	475	1000
1.8	18	550	1000
1.8	19	575	1000
1.8	20	750	1000
1.8	21	800	1000
1.8	24	1100	1000
1.8	28	1600	1000
1.8	28	1800	1000
1.9	32	2400	500
2.1	36	3275	500
2.2	41	4425	500
2.4	45	5475	500
2.5	49	6700	500
2.7	55	8350	250
2.9	61	10765	250
3.1	67	13350	250
3.4	76	17000	250
3.6	83	21425	250

Key:

re: Round Solid

rm: Round Stranded

sm: Sectoral Stranded

Colour code (2)

4 Core: Red, Yellow, Blue, Black

Colour code (1)

4Core: Blue, Brown, Black

For sectoral conductors, number of wires mentioned is minimum number of wires in accordance with IEC 60228.

PVC INSULATED / PVC SHEATHED CABLES

COPPER CONDUCTORS

STANDARD: IEC 60502 – 1

600/1000 VOLTS



STEEL WIRE ARMoured

Steel Wire Dia.	Nominal Sheath Thickness	Approx. Overall Diameter	Approx. Weight	Packing
mm	mm	mm	Kg/Km	meters
1.25	1.80	19.00	790	1000
1.25	1.80	20.00	825	1000
1.25	1.80	21.00	925	1000
1.25	1.80	21.00	975	1000
1.25	1.80	23.00	1175	1000
1.25	1.80	24.00	1250	1000
1.60	1.80	27.00	1750	1000
1.60	1.80	31.00	2375	500
1.60	1.90	31.00	2600	500
2.00	2.10	37.00	3625	500
2.00	2.20	40.00	4575	500
2.50	2.40	46.00	6350	500
2.50	2.50	50.00	7525	500
2.50	2.70	55.00	8950	250
2.50	2.90	60.00	10650	250
2.50	3.10	66.00	13575	250
2.50	3.30	73.00	16425	250
3.15	3.60	83.00	21500	250
3.15	3.90	91.00	26500	250

DOUBLE STEEL TAPE ARMoured

Steel Tape Thickness	Nominal Sheath Thickness	Approx. Overall Diameter	Approx. Weight	Packing
mm	mm	mm	Kg/Km	meters
0.20	1.80	18.00	525	1000
0.20	1.80	18.00	575	1000
0.20	1.80	19.00	650	1000
0.20	1.80	20.00	675	1000
0.20	1.80	21.00	850	1000
0.20	1.80	22.00	900	1000
0.20	1.80	24.00	1225	1000
0.20	1.80	28.00	1750	1000
0.20	1.90	29.00	1975	1000
0.20	2.00	33.00	2625	500
0.50	2.20	38.00	3850	500
0.50	2.40	43.00	5100	500
0.50	2.50	47.00	6175	500
0.50	2.60	52.00	7475	250
0.50	2.80	57.00	9200	250
0.50	3.00	63.00	11725	250
0.50	3.20	69.00	14425	250
0.50	3.50	78.00	18200	250
0.80	3.80	87.00	23600	250

Tolerance range

Overall diameter -2%, +8%

Packing ±5%

PVC INSULATED / PVC SHEATHED CABLES

ALUMINIUM CONDUCTORS

STANDARD: IEC 60502 – 1

600/1000 VOLTS



CABLE CORE(S)

Nominal Area mm ²	No. of Wires No.	Approx. Conductor Diameter mm	Nominal Insulation Thickness mm
1x16 rm	7	4.98	1.00
1x25 rm	7	6.30	1.20
1x35 rm	19	7.41	1.20
1x50 rm	19	8.75	1.40
1x70 rm	19	10.55	1.40
1x95 rm	37	12.40	1.60
1x120 rm	37	14.00	1.60
1x150 rm	37	15.47	1.80
1x185 rm	61	17.36	2.00
1x240 rm	61	19.89	2.20
1x300 rm	61	22.23	2.40
1x400 rm	61	25.20	2.60
1x500 rm	61	28.62	2.80
1x630 rm	91	32.56	2.80

CABLE CORE(S)

2X16 rm	7	4.98	1.00
2x25 rm	7	6.30	1.20
2x35 rm	7	7.41	1.20

CABLE CORE(S)

3x16 rm	7	4.98	1.00
31x25 rm	7	6.30	1.20
3x35 rm	7	7.41	1.20
3x50 rm	19	8.75	1.40
3x70 rm	19	10.55	1.40
3x95 rm	19	12.40	1.60
3x120 rm	37	14.00	1.60
3x150 rm	37	15.47	1.80
3x185 rm	37	17.36	2.00
3x240 rm	61	19.89	2.20
3x300 rm	61	22.23	2.40
3x400 rm	61	25.20	2.60
3x500 rm	61	28.62	2.80

Key:

Rm : Round Stranded
Sm : Sectoral Stranded

Colour Code (1):

1 Cores : Black (Red on request)
2 Cores : Red, Black
3 Cores : Red, Yellow, Blue

Colour Code (2):

1 Cores : Brown or Blue
2 Cores : Brown, Blue
3 Cores : Brown, Black, Gray

Single Core cables are Aluminium Armoured as per IEC 60502-1 recommendation

For sectoral conductors, number of wires mentioned is minimum number of wires in accordance with IEC 60228

UNARMoured

Nominal Sheath Thickness mm	Approx. Overall Diameter mm	Approx. Weight Kg/Km	Packing meters
1.4	10	135	1000
1.4	12	185	1000
1.4	13	225	1000
1.4	15	300	1000
1.4	17	375	1000
1.5	19	500	1000
1.5	21	600	1000
1.6	23	725	1000
1.7	25	900	1000
1.8	28	1150	1000
1.9	31	1400	500
2	35	1750	500
2.1	39	2200	500
2.2	43	2725	500

UNARMoured

1.8	20	525	1000
1.8	24	725	1000
1.8	26	875	1000

UNARMoured

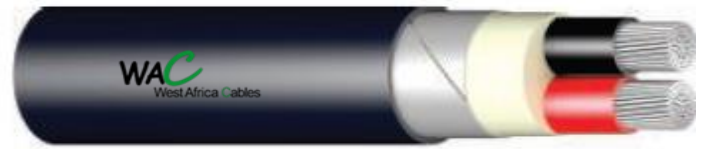
1.8	22	600	1000
1.8	25	825	1000
1.8	28	875	1000
1.8	31	1100	500
2	36	1475	500
2.1	41	1925	500
2.2	45	2275	500
2.3	49	2775	500
2.5	55	3425	250
2.7	62	4375	250
2.9	68	5325	250
3.1	76	6675	250
3.4	85	8350	250

PVC INSULATED / PVC SHEATHED CABLES

ALUMINIUM CONDUCTORS

STANDARD: IEC 60502 – 1

600/1000 VOLTS



ALUMINIUM WIRE ARMoured

Nominal Alum/Steel Wire Dia	Nominal Sheath Thickness	Appox. Overall Diameter	Appox. Weight	Packing
mm	mm	mm	Kg/km	Meters
0.80	1.80	15.00	275	1000
0.80	1.80	16.00	350	1000
0.80	1.80	17.00	400	1000
1.25	1.80	20.00	550	1000
1.25	1.80	22.00	675	1000
1.25	1.80	24.00	825	1000
1.60	1.80	26.00	1000	1000
1.60	1.80	28.00	1150	1000
1.60	1.80	31.00	1350	500
1.60	1.90	34.00	1625	500
2.00	2.00	37.00	2050	500
2.00	2.20	41.00	2500	500
2.00	2.20	45.00	3050	500
2.00	2.40	50.00	3650	500

ALMUNIUM TAPE ARMoured

Nominal Alum/Steel Tape Thickness	Nominal Sheath Thickness	Appox. Overall Diameter	Appox. Weight	Packing
mm	mm	mm	Kg/km	Meters
0.50	1.80	15.00	265	1000
0.50	1.80	17.00	375	1000
0.50	1.80	18.00	425	1000
0.50	1.80	20.00	500	1000
0.50	1.80	21.00	600	1000
0.50	1.80	24.00	750	1000
0.50	1.80	25.00	875	1000
0.50	1.80	27.00	1000	1000
0.50	1.80	29.00	1200	1000
0.50	1.90	32.00	1475	500
0.50	1.90	35.00	1750	500
0.50	2.10	39.00	2200	500
0.50	2.20	43.00	2700	500
0.50	2.30	48.00	3275	500

STEEL WIRE ARMoured

Nominal Alum/Steel Wire Dia	Nominal Sheath Thickness	Appox. Overall Diameter	Appox. Weight	Packing
mm	mm	mm	Kg/km	Meters
1.25	1.80	23.00	950	1000
1.60	1.80	27.00	14000	1000
1.60	1.60	29.00	1600	1000

DOUBLE STEEL TAPE ARMoured

Nominal Alum/Steel Tape Thickness	Nominal Sheath Thickness	Appox. Overall Diameter	Appox. Weight	Packing
mm	mm	mm	Kg/km	Meters
0.20	1.80	21.00	650.00	1000
0.20	1.80	25.00	850	1000
0.20	1.80	27.00	1025	1000

STEE WIRE ARMoured

Nominal Alum/Steel Wire Dia	Nominal Sheath Thickness	Appox. Overall Diameter	Appox. Weight	Packing
mm	mm	mm	Kg/km	Meters
1.25	1.80	24.00	1050	1000
1.60	1.80	28.00	1525	1000
1.60	1.80	31.00	1650	1000
1.60	2.00	35.00	2025	500
2.00	2.10	40.00	2800	500
2.00	2.20	45.00	3450	500
2.00	2.30	49.00	3900	500
2.50	2.50	55.00	5075	250
2.50	2.70	60.00	5975	250
2.50	2.90	67.00	7225	250
2.50	3.10	74.00	8475	250
3.15	3.40	83.00	11150	250
3.15	3.60	92.00	13325	250

DOUBLE STEEL TAPE ARMoured

Nominal Alum/Steel Tape Thickness	Nominal Sheath Thickness	Appox. Overall Diameter	Appox. Weight	Packing
mm	mm	mm	Kg/km	Meters
0.20	1.80	22.00	700	1000
0.20	1.80	26.00	975	1000
0.20	1.80	28.00	1025	1000
0.20	1.90	32.00	1300	500
0.20	2.00	37.00	1700	500
0.50	2.20	43.00	2575	500
0.50	2.30	47.00	3000	500
0.50	2.50	52.00	3600	250
0.50	2.60	57.00	4300	250
0.50	2.80	64.00	5350	250
0.50	3.00	70.00	6400	250
0.50	3.30	79.00	7950	250
0.50	3.50	87.00	9725	250

Tolerance range

Overall diameter -2%, +8%

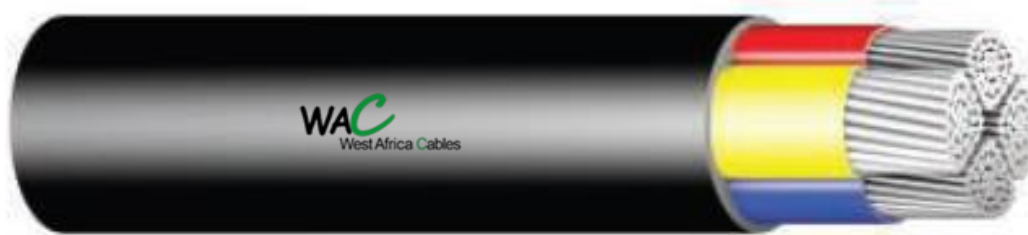
Packing ±5%

PVC INSULATED / PVC SHEATHED CABLES

ALUMINIUM CONDUCTORS

STANDARD: IEC 60502 – 1

600/1000 VOLTS



CABLE CORE(S)

Nominal Area mm ²	No. of Wire		Approx Conductor Diameter		Nominal Insulation Thickness	
	ph	Ne	ph	Ne	ph	Ne
3x25rm+16	7.00	7.00	6.30	4.98	1.20	1.00
3x35sm+16	6.00	7.00	-	4.98	1.20	1.00
3x50sm+25	6.00	7.00	-	6.3	1.40	1.20
3x70sm+35	12.00	7.00	-	7.41	1.40	1.20
3x95sm+50	15.00	19.00	-	8.75	1.60	1.40
3x120sm+70	15.00	19.00	-	10.55	1.60	1.40
3x150sm+70	30.00	19.00	-	10.55	1.80	1.40
3x185sm+95	30.00	19.00	-	12.4	2.00	1.60
3x240sm+120	30.00	37.00	-	14	2.20	1.60
3x300sm+150	30.00	37.00	-	15.45	2.40	1.80
3x400sm+185	53.00	37.00	-	17.36	2.60	2.00
3x500sm+240	53.00	61.00	-	19.89	2.80	2.20

UNARMoured

Nominal Sheath Thickness mm	Approx Overall Diameter mm	Approx Weight kg/km	Packing meters
1.80	27.00	900	1000
1.80	27.00	875	1000
1.90	31.00	1150	500
2.00	34.00	1475	500
2.20	39.00	1950	500
2.30	43.00	2375	500
2.40	47.00	2800	500
2.60	52.00	3450	250
2.80	58.00	4400	250
3.00	64.00	5375	250
3.20	72.00	6775	250
3.50	79.00	8400	250

CABLE CORE(S)

4X16rm	7.00	4.98	1.00
4X25rm	7.00	6.3	1.20
4X35sm	6.00	-	1.20
4X50sm	6.00	-	1.40
4X70sm	12.00	-	1.40
4X95sm	15.00	-	1.60
4X120sm	15.00	-	1.60
4X150sm	15.00	-	1.80
4X185sm	30.00	-	2.00
4X240sm	30.00	-	2.40
4X300sm	53.00	-	2.60
4X500sm	53.00	-	2.80

UNARMoured

1.80	23.00	700	1000
1.80	28.00	1000	1000
1.80	28.00	925	1000
1.90	32.00	1250	500
2.10	36.00	1600	500
2.20	41.00	2100	500
2.40	45.00	2550	500
2.50	49.00	3075	500
2.70	55.00	3800	250
2.90	61.00	4825	250
3.10	67.00	5875	250
3.40	76.00	7475	250
3.60	83.00	9225	250

Re: Round Solid

Rm: Round standardised

Sm: Sectoral stranded

Ph: phase Conductor

Ne: Neutral Conductor

For 3 ½ core neutral conductor are round standardised.

For sectoral conductor, number of wire mentioned is minimum number of wire accordance with IEC 60228

Colour code (1)

3 ½ cores :Red, yellow, Blue, Black

4 cores :Red, yellow, Blue, Black

Colour code (2)

3 ½ cores :Blue, Brown, Black, Grey

4 cores :Blue, Brown, Black, Grey

PVC INSULATED / PVC SHEATHED CABLES

ALUMINIUM CONDUCTORS

STANDARD: IEC 60502 – 1

600/1000 VOLTS



STEEL WIRE ARMoured

Steel Wire Dia. mm	Nominal Sheath Thickness mm	Approx. Overall Diameter mm	Approx. Weight Kg/Km	Packing meters
1.60	1.80	30.00	1675	1000
1.60	1.90	30.00	1650	1000
2.00	2.00	35.00	2250	500
2.00	2.10	39.00	2725	500
2.00	2.30	44.00	3400	500
2.50	2.50	48.00	4375	500
2.50	2.60	52.00	4975	250
2.50	2.70	57.00	5800	250
2.50	2.90	63.00	7075	250
2.50	3.10	70.00	8275	250
3.15	3.50	79.00	11000	250
3.15	3.70	87.00	13050	250

DOUBLE STEEL TAPE ARMoured

Steel Tape Thickness mm	Nominal Sheath Thickness mm	Approx. Overall Diameter mm	Approx. Weight Kg/Km	Packing meters
0.20	1.80	27.00	1075	1000
0.20	1.80	27.00	1025	500
0.20	1.90	32.00	1325	500
0.20	2.10	35.00	1700	500
0.50	2.30	42.00	2575	500
0.50	2.40	45.00	3050	500
0.50	2.50	49.00	3550	250
0.50	2.70	54.00	4275	250
0.50	2.90	60.00	5325	250
0.50	3.10	66.00	6375	250
0.50	3.30	74.00	7900	250
0.80	3.60	83.00	10425	250

STEEL WIRE ARMoured

Steel Wire Dia. mm	Nominal Sheath Thickness mm	Approx. Overall Diameter mm	Approx. Weight Kg/Km	Packing meters
1.60	1.80	27.00	1350	1000
1.60	1.80	31.00	1775	500
1.60	1.90	31.00	1750	500
2.00	2.10	37.00	2450	500
2.00	2.20	40.00	2900	500
2.50	2.40	46.00	4025	500
2.50	2.50	50.00	4600	500
2.50	2.70	55.00	5325	250
2.50	2.90	60.00	6300	250
2.50	3.10	66.00	7650	250
2.50	3.30	73.00	9075	250
1.15	3.60	83.00	11850	250
3.15	3.90	91.00	14125	250

DOUBLE STEEL TAPE ARMoured

Steel Tape Thickness mm	Nominal Sheath Thickness mm	Approx. Overall Diameter mm	Approx. Weight Kg/Km	Packing meters
0.20	1.80	24.00	850	1000
0.20	1.80	28.00	1150	1000
0.20	1.90	29.00	1125	1000
0.20	2.00	33.00	1475	500
0.50	2.20	38.00	2175	500
0.50	2.40	43.00	2775	500
0.50	2.50	47.00	3250	500
0.50	2.60	51.00	3850	250
0.50	2.80	57.00	4675	250
0.50	3.00	63.00	5800	250
0.50	3.20	69.00	6950	250
0.50	3.50	78.00	8675	250
0.80	3.80	87.00	11400	250

TOLERANCE range;

Overall diameter -2% , +8%

PACKING ±5%

PVC INSULATED / PVC SHEATHED CABLES

COPPER CONDUCTORS

STANDARD: IEC 60502 – 1

600/1000 VOLTS



CABLE CORE(S)

Nominal Area mm ²	No. of Wires No.	Approx. Conductor Diameter mm	Nominal Insulation Thickness mm
1x1.5 re	1	1.38	0.70
1x1.5 rm	7	1.56	0.70
1x2.5 re	1	1.78	0.70
1x2.5 rm	7	2.01	0.70
1x4 re	1	2.25	0.70
1x4 rm	7	2.55	0.70
1x6 re	1	2.76	0.70
1x6 rm	7	3.12	0.70
1x10 rm	7	4.01	0.70
1x16 rm	7	5.03	0.70
1x25 rm	7	6.30	0.90
1x35 rm	7	7.44	0.90
1x50 rm	19	8.80	1.00
1x70 rm	19	10.60	1.10
1x95 rm	19	12.40	1.10
1x120 rm	37	14.00	1.20
1x150 rm	37	15.50	1.40
1x185 rm	37	17.40	1.60
1x240 rm	61	20.00	1.70
1x300 rm	61	22.50	1.80
1x400 rm	61	25.40	2.00
1x500 rm	61	28.50	2.20
1x630 rm	91	32.80	2.40

CABLE CORE(S)

2x1.5 re	1	1.38	0.70
2x1.5 rm	7	1.56	0.70
2x2.5 re	1	1.78	0.70
2x2.5 rm	7	2.01	0.70
2x4 re	1	2.25	0.70
2x4 rm	7	2.55	0.70
2x6 re	1	2.76	0.70
2x6 rm	7	3.12	0.70
2x10 rm	7	4.01	0.70
2x16 rm	7	5.03	0.70
2x25 rm	7	6.30	0.90
2x35 rm	7	7.44	0.90

UNARMoured

Nominal Sheath Thickness mm	Approx. Overall Diameter mm	Approx. Weight Kg/Km	Packing meters
1.4	6	45	1000
1.4	6	50	1000
1.4	6	60	1000
1.4	7	60	1000
1.4	7	75	1000
1.4	7	80	1000
1.4	7	95	1000
1.4	8	100	1000
1.4	9	145	1000
1.4	10	200	1000
1.4	11	300	1000
1.4	13	400	1000
1.4	14	525	1000
1.4	16	725	1000
1.5	18	1000	1000
1.5	20	1225	1000
1.6	22	1500	1000
1.6	24	1875	1000
1.7	27	2450	1000
1.8	30	3050	1000
1.9	34	3900	500
2	37	4975	500
2.2	42	6425	500

UNARMoured

1.8	12	175	1000
1.8	13	200	1000
1.8	13	225	1000
1.8	13	225	1000
1.8	14	275	1000
1.8	14	275	1000
1.8	15	325	1000
1.8	16	350	1000
1.8	17	475	1000
1.8	19	650	1000
1.8	23	925	1000
1.8	25	1200	1000

Re : Round Solid
Rm : Round Stranded

COLOUR CODE (1)

1 cores : Black (Red on request)
2 cores : Red , Black

COLOUR CODE (2)

1 cores : Brown or Blue
2 cores : Brown , Blue

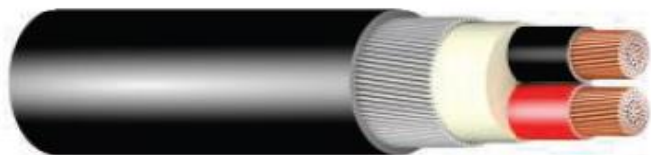
Single core cables are Aluminium Armoured as per IEC 60502-1 recommendation

PVC INSULATED / PVC SHEATHED CABLES

COPPER CONDUCTORS

STANDARD: IEC 60502 – 1

600/1000 VOLTS



ALUMINIUM WIRE ARMoured

Nominal Alum/Steel Wire Dia.	Nominal Sheath Thickness	Approx. Overall Diameter	Approx. Weight	Packing
mm	mm	mm	Kg/Km	meters
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
0.80	1.80	16.00	475	1000
0.80	1.80	17.00	575	1000
1.25	1.80	19.00	775	1000
1.25	1.80	21.00	1000	1000
1.25	1.80	23.00	1300	1000
1.60	1.80	26.00	1600	1000
1.60	1.80	28.00	1925	1000
1.60	1.80	30.00	2325	1000
1.60	1.90	33.00	2950	500
1.60	1.90	36.00	3575	500
2.00	2.10	40.00	4650	500
2.00	2.20	44.00	5775	500
2.00	2.30	49.00	7325	500

ALUMINIUM TAPE ARMoured

Nominal Alum/Steel Tape Thickness	Nominal Sheath Thickness	Approx. Overall Diameter	Approx. Weight	Packing
mm	mm	mm	Kg/Km	meters
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
0.50	1.80	16.00	475	1000
0.50	1.80	17.00	575	1000
0.50	1.80	19.00	725	1000
0.50	1.80	21.00	975	1000
0.50	1.80	23.00	1250	1000
0.50	1.80	24.00	1500	1000
0.50	1.80	26.00	1800	1000
0.50	1.80	29.00	2175	1000
0.50	1.80	31.00	2775	500
0.50	1.90	34.00	3400	500
0.50	2.00	38.00	4325	500
0.50	2.10	42.00	5450	500
0.50	2.30	47.00	6950	500

STEEL WIRE ARMoured

-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
0.80	1.80	15.00	450	1000
0.80	1.80	16.00	475	1000
0.80	1.80	16.00	525	1000
0.80	1.80	17.00	550	1000
1.25	1.80	20.00	835	1000
1.25	1.80	22.00	1050	1000
1.60	1.80	26.00	1575	1000
1.60	1.80	28.00	1900	1000

DOUBLE STEEL TAPE ARMoured

-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
0.20	1.80	15.00	350	1000
0.20	1.80	15.00	375	1000
0.20	1.80	16.00	400	1000
0.20	1.80	16.00	450	1000
0.20	1.80	18.00	575	1000
0.20	1.80	20.00	750	1000
0.20	1.80	24.00	1075	1000
0.20	1.80	26.00	1350	1000

Tolerance range:

Overall diameter -2%, +8%

Packing ± 5%

PVC INSULATED / PVC SHEATHED CABLES

COPPER CONDUCTORS

STANDARD: IEC 60502 – 1

600/1000 VOLTS



CABLE CORE(S)

Nominal Area	No.of Wires	Approx. Conductor Diameter	Nominal Insulation Thickness
mm ²	No.	mm	mm
3x1.5 re	1	1.38	0.70
3x1.5 rm	7	1.56	0.70
3x2.5 re	1	1.78	0.70
3x2.5 rm	7	2.01	0.70
3x4 re	1	2.25	0.70
3x4 rm	7	2.55	0.70
3x6 re	1	2.76	0.70
3x6 rm	7	3.12	0.70
3x10 rm	7	4.01	0.70
3x16 rm	7	5.03	0.70
3x25 rm	7	6.30	0.90
3x35 rm	7	7.44	0.90
3x50 rm	19	8.80	1.00
3x70 rm	19	10.55	1.10
3x95 rm	19	12.40	1.10
3x120 rm	37	14.00	1.20
3x150 rm	37	15.47	1.40
3x185 rm	37	17.36	1.60
3x240 rm	61	20.25	1.70
3x300 rm	61	22.68	1.80
3x400 rm	61	25.38	2.00
3x500 rm	61	28.80	2.20

UNARMoured

Nominal Sheath Thickness	Approx. Overall Diameter	Approx. Weight	Packing
mm	mm	Kg/Km	meters
1.8	13	200	1000
1.8	13	210	1000
1.8	13	250	1000
1.8	14	275	1000
1.8	14	325	1000
1.8	15	325	1000
1.8	15	400	1000
1.8	16	400	1000
1.8	18	575	1000
1.8	20	800	1000
1.8	24	1150	1000
1.8	27	1375	1000
1.8	30	1800	1000
1.9	35	2500	500
2	39	3350	500
2.1	43	4150	500
2.3	48	5125	500
2.4	53	6375	250
2.6	60	8275	250
2.8	67	10275	250
3.1	74	13050	250
3.3	83	16625	250

CABLE CORE(S)

	Ph	Ne	Ph	Ne	Ph	Ne
3x10 rm +6	7	7.00	4.01	3.12	0.7	0.70
3x16 rm +10	7	7.00	5.03	4.01	0.7	0.70
3x25 rm + 16	7	7.00	6.30	5.03	0.9	0.70
3x35 sm + 16	6	7.00	-	5.03	0.9	0.70
3x50 sm + 25	6	7.00	-	6.3	1	0.90
3x70 sm + 35	12	7.00	-	7.44	1.1	0.90
3x95 sm + 50	15	19.00	-	8.8	1.1	1.00
3x120 sm + 70	18	19.00	-	10.6	1.2	1.10
3x150 sm + 70	18	19.00	-	10.6	1.4	1.10
3x185 sm + 95	30	19.00	-	12.4	1.6	1.10
3x240 sm + 120	34	37.00	-	14	1.7	1.20
3x300 sm + 150	34	37.00	-	15.5	1.8	1.40
3x400 sm + 185	53	37.00	-	17.4	2	1.60
3x500 sm +240	53	61.00	-	20	2.2	1.70

UNARMoured

1.8	19	640	1000
1.8	22	900	1000
1.8	25	1325	1000
1.8	25	1475	1000
1.8	29	1950	1000
1.9	33	2750	500
2.1	37	3675	500
2.2	40	4600	500
2.3	45	5550	500
2.5	50	6975	500
2.7	55	9275	250
2.9	61	11150	250
3.1	68	14500	250
3.4	76	18050	250

re : Round Solid

rm : Round Stranded

sm : Sectoral Stranded

Ph : Phase Conductor

Ne : Neutral Conductor

Colour code (1)

3 Core : Red,Yellow,Blue

3½ Core : Red,Yellow,Blue,Black

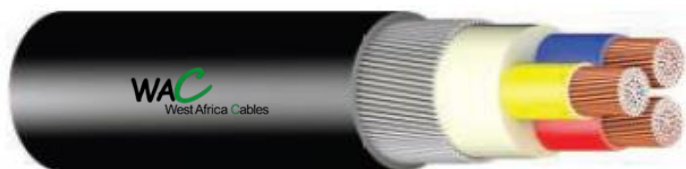
Colour code (1)

3 Core : Brown,Black,Grey

3½ Core :Blue,Brown,Black,Grey

For 3½ cores, neutral conductors are round stranded

For sectoral conductors, number of wires mentioned is minimum number of wires as per IEC 60228



STEEL WIRE ARMoured

Steel Wire Dia. mm	Nominal Sheath Thickness mm	Approx. Overall Diameter mm	Approx. Weight Kg/Km	Packing meters
0.80	1.80	17.00	525.00	1000
0.80	1.80	17.00	575	1000
0.80	1.80	18.00	625	1000
1.25	1.80	21.00	950	1000
1.25	1.80	23.00	1225	1000
1.60	1.80	27.00	1825	1000
1.60	1.80	30.00	2125	1000
1.60	1.90	33.00	2650	500
2.00	2.00	39.00	3775	500
2.00	2.20	43.00	4800	500
2.00	2.30	47.00	5750	500
2.50	2.50	53.00	7325	250
2.50	2.60	58.00	8825	250
2.50	2.80	66.00	11100	250
2.50	3.00	72.00	13350	250
2.50	3.20	79.00	16425	250
3.15	3.50	90.00	21450	250

DOUBLE STEEL TAPE ARMoured

Steel Tape Thickness mm	Nominal Sheath Thickness mm	Approx. Overall Diameter mm	Approx. Weight Kg/Km	Packing meters
0.20	1.80	16.00	410.00	1000
0.20	1.80	16.00	475	1000
0.20	1.80	17.00	500	1000
0.20	1.80	19.00	675	1000
0.20	1.80	21.00	900	1000
0.20	1.80	25.00	1300	1000
0.20	1.80	27.00	1525	1000
0.20	1.80	31.00	1975	500
0.20	2.00	36.00	2750	500
0.20	2.10	40.00	2600	500
0.50	2.30	45.00	4875	500
0.50	2.40	50.00	5900	500
0.50	2.60	56.00	7250	250
0.50	2.70	63.00	9250	250
0.50	2.90	69.00	11350	250
0.50	3.20	76.00	14225	250
0.50	3.40	85.00	17950	250

STEEL WIRE ARMoured

1.25	1.80	22.00	1050.00	1000
1.25	1.80	24.00	1350	1000
1.60	1.80	28.00	2000	1000
1.60	1.80	28.00	2175	1000
1.60	1.90	32.00	2775	500
2.00	2.10	37.00	3950	500
2.00	2.20	41.00	5000	500
2.00	2.40	45.00	6100	500
2.50	2.50	50.00	7650	500
2.50	2.70	55.00	9275	250
2.50	2.90	61.00	11575	250
2.50	3.00	66.00	13900	250
3.15	3.40	76.00	18250	250
3.15	3.60	83.00	22650	250

DOUBLE STEEL TAPE ARMoured

0.20	1.80	20.00	750.00	1000
0.20	1.80	22.00	1025	1000
0.20	1.80	26.00	1475	1000
0.20	1.80	26.00	1625	1000
0.20	1.90	30.00	2150	1000
0.20	2.00	34.00	2950	500
0.50	2.20	39.00	4250	500
0.50	2.30	43.00	5250	500
0.50	2.50	47.00	6275	500
0.50	2.60	52.00	7775	250
0.50	2.80	58.00	9900	250
0.50	3.00	63.00	12125	250
0.50	3.30	71.00	15250	250
0.50	3.50	78.00	19275	250

Tolerance range :

Overall diameter -2% , +8%

Packing $\pm 5\%$

PVC INSULATED / PVC SHEATHED CABLES

COPPER CONDUCTORS

STANDARD: IEC 60502 – 1

600/1000 VOLTS



CABLE CORE (S)

Nominal Area mm	No. of Wires No	Approx. Conductor Diameter mm	Nominal Insulation Thickness mm
4x1.5 re	1	1.38	0.70
4x1.5 rm	7	1.56	0.70
4x2.5 re	1	1.78	0.70
4x2.5 rm	7	2.01	0.70
4x4 re	1	2.25	0.70
4x4 rm	7	2.55	0.70
4x6 re	1	2.76	0.70
4x6 rm	7	3.12	0.70
4x10 rm	7	4.01	0.70
4x16 rm	7	5.03	0.70
4x25 rm	7	6.30	0.90
4x35 sm	6	-	0.90
4x50 sm	6	-	1.00
4x70 sm	12	-	1.10
4x95 sm	15	-	1.10
4x120 sm	18	-	1.20
4x150 sm	18	-	1.40
4x185 sm	30	-	1.60
4x240 sm	34	-	1.70
4x300 sm	34	-	1.80
4x400 sm	53	-	2.00
4x500 sm	53	-	2.20

UNARMoured

Nominal Sheath Thickness mm	Approx. Overall Diameter mm	Approx. Weight Kg/Km	Packing meters
1.8	13	230	1000
1.8	14	250	1000
1.8	14	300	1000
1.8	15	300	1000
1.8	15	375	1000
1.8	16	400	1000
1.8	17	475	1000
1.8	17	500	1000
1.8	20	700	1000
1.8	22	975	1000
1.8	26	1450	1000
1.8	26	1650	1000
1.9	30	2175	1000
2	34	3050	500
2.1	38	4100	500
2.3	43	5125	500
2.4	47	6300	500
2.6	52	7825	250
2.8	58	10150	250
3	64	12575	250
3.3	73	16075	250
3.5	60	20375	250

re : Round Solid

Colour code (1)

rm : Round Stranded

4 Core : Red, Yellow, Blue, Black

sm : Sectoral Stranded

Colour code (2)

4 Core : Blue, Brown, Black, Grey

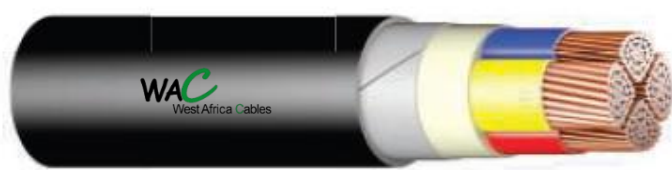
For sectoral conductors, number of wires mentioned is minimum is number of wires in accordance with IEC 60228

PVC INSULATED / PVC SHEATHED CABLES

COPPER CONDUCTORS

STANDARD: IEC 60502 – 1

600/1000 VOLTS



STEEL WIRE ARMoured

Steel Wire dia. mm	Nominal Sheath Thickness mm	Approx. Overall Diameter mm	Approx. Weight Kg/km	Packing Meters
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
0.80	1.80	18.00	600	1000
1.25	1.80	19.00	800	1000
1.25	1.80	19.00	850	1000
1.25	1.80	22.00	1100	1000
1.60	1.80	25.00	1600	1000
1.60	1.80	29.00	2175	1000
1.60	1.90	30.00	2400	1000
1.60	2.00	33.00	3025	500
2.00	2.20	39.00	4325	500
2.00	2.30	43.00	5500	500
2.50	2.50	48.00	7075	500
2.50	2.60	52.00	8425	250
2.50	2.80	57.00	10200	250
2.50	3.00	64.00	12850	250
2.50	3.20	70.00	15550	250
3.15	3.50	80.00	20450	250
3.15	3.80	88.00	25225	250

DOUBLE STEEL TAPE ARMoured

St. Tape Thickness mm	Nominal Sheath Thickness mm	Approx. Overall Diameter mm	Approx. Weight Kg/km	Packing meters
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
0.20	1.80	17.00	475	1000
0.20	1.80	17.00	550	1000
0.20	1.80	18.00	600	1000
0.20	1.80	20.00	800	1000
0.20	1.80	23.00	1100	1000
0.20	1.80	27.00	1600	1000
0.20	1.80	27.00	1800	1000
0.20	1.90	31.00	2350	500
0.20	2.10	35.00	3275	500
0.50	2.30	41.00	4725	500
0.50	2.40	45.00	5800	500
0.50	2.60	49.00	7050	500
0.50	2.70	54.00	8650	250
0.50	2.90	60.00	11075	250
0.50	3.10	66.00	13600	250
0.50	3.40	75.00	17250	250
0.50	3.70	84.00	22475	250

Tolerance range:

Overall diameter -2%, +8%

Packing ± 5%

PVC INSULATED / PVC SHEATHED CABLES

ALUMINIUM CONDUCTORS

STANDARD: IEC 60502 – 1

600/1000 VOLTS



CABLE CORE (S)

Nominal Area mm ²	No. of Wires No.	Approx. Conductor Diameter mm	Nominal Insulation Thickness mm
1x16rm	7	5.00	0.70
1x25 rm	7	6.30	0.90
1x35 rm	7	7.41	0.90
1x50 rm	19	8.80	1.00
1x70 rm	19	10.55	1.10
1x95 rm	19	12.40	1.10
1x120 rm	37	14.00	1.20
1x150 rm	37	15.50	1.40
1x185 rm	37	17.40	1.60
1x240 rm	61	19.90	1.70
1x300 rm	61	22.20	1.80
1x400 rm	61	25.20	2.00
1x500 rm	61	28.60	2.20
1x630 rm	91	32.60	2.40

UNARMoured

Nominal Sheath Thickness mm	Approx. Overall Diameter mm	Approx. Weight Kg/Km	Packing meters
1.4	10	110	1000
1.4	11	150	1000
1.4	12	200	1000
1.4	14	250	1000
1.4	16	325	1000
1.5	18	425	1000
1.5	20	525	1000
1.6	22	650	1000
1.6	24	775	1000
1.7	27	1000	1000
1.8	30	1200	1000
1.9	33	1525	500
2	37	1925	500
2.2	42	2475	500

CABLE CORE (S)

2x16 rm	7	5.00	0.70
2x25 rm	7	6.30	0.90
2x35 rm	7	7.41	0.90

UNARMoured

1.8	19	450	1000
1.8	23	625	1000
1.8	25	775	1000

CABLE CORE (S)

3X16	7	5.00	0.70
3X25	7	6.30	0.90
3X35	7	7.41	0.90
3X50	19	8.80	1.00
3X70	19	10.55	1.10
3X95	19	12.40	1.10
3X120	37	14.00	1.20
3X150	37	15.50	1.40
3X185	37	17.40	1.60
3X240	61	19.90	1.70
3X300	61	22.20	1.80
3X400	61	25.20	2.00
3X500	61	28.60	2.20

UNARMoured

1.8	20	500	1000
1.8	24	700	1000
1.8	26	750	1000
1.8	30	1785	500
1.9	35	2500	500
2	39	3340	500
2.1	43	4150	500
2.3	48	5120	500
2.4	53	6350	500
2.6	60	8280	250
2.8	66	10270	250
3.1	74	13040	250
3.3	83	16610	250

rm : Round Stranded
sm : Sector Stranded

Colour Code (1)

1 cores :Black (Red on Request)
2 Cores :Red Black
3 Cores :Red, yellow , blue

Colour code (2)

1 Cores :Brown or blue
2 Cores :Brown Blue
3 Cores :Brown Black grey

Single core cables are Aluminium Armoured as per IEC 60502-1 recommendation

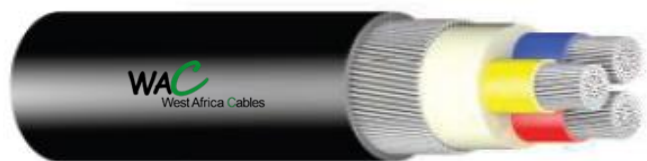
For sector conductor number of wire mentioned is minimum number of wire in accordance with IEC 60228

PVC INSULATED / PVC SHEATHED CABLES

ALUMINIUM CONDUCTORS

STANDARD: IEC 60502 – 1

600/1000 VOLTS



ALUMINIUM WIRE ARMoured

Nominal Alum/Steel Wire Dia. (mm)	Nominal Sheath Thickness (mm)	Approx. Overall Diameter (mm)	Approx. Weight (Kg/Km)	Packing (meters)
1.25	1.80	19.00	500	1000
1.25	1.80	21.00	600	1000
1.25	1.80	23.00	725	1000
1.60	1.80	26.00	900	1000
1.60	1.80	27.00	1025	1000
1.60	1.80	30.00	1225	1000
1.60	1.90	33.00	1475	500
1.60	1.90	35.00	1725	500
2.00	2.10	40.00	2275	500
2.00	2.20	44.00	2750	500
2.00	2.30	49.00	3350	500

ALUMINIUM TAPE ARMoured

Nominal Alum/Steel Tape Thickness (mm)	Nominal Sheath Thickness (mm)	Approx. Overall Diameter (mm)	Approx. Weight (Kg/Km)	Packing (meters)
0.50	1.80	19.00	450	1000
0.50	1.80	21.00	550	1000
0.50	1.80	23.00	675	1000
0.50	1.80	24.00	775	1000
0.50	1.80	26.00	900	1000
0.50	1.80	29.00	1075	1000
0.50	1.80	31.00	1300	500
0.50	1.90	34.00	1550	500
0.50	2.00	38.00	1950	500
0.50	2.10	42.00	2400	500
0.50	2.30	47.00	3000	500

STEEL WIRE ARMoured

Nominal Steel Wire Dia. (mm)	Nominal Sheath Thickness (mm)	Approx. Overall Diameter (mm)	Approx. Weight (Kg/Km)	Packing (meters)
1.20	1.80	22.00	850	1000
1.60	1.80	26.00	1265	1000
1.60	1.80	28.00	1475	1000

DOUBLE STEEL TAPE ARMoured

Nominal Steel Tape Thickness (mm)	Nominal Sheath Thickness (mm)	Approx. Overall Diameter (mm)	Approx. Weight (Kg/Km)	Packing (meters)
0.20	1.80	20.00	550	1000
0.20	1.80	24.00	750	1000
0.20	1.80	26.00	925	1000

STEEL WIRE ARMoured

Nominal Steel Wire Dia. (mm)	Nominal Sheath Thickness (mm)	Approx. Overall Diameter (mm)	Approx. Weight (Kg/Km)	Packing (meters)
1.25	1.80	23.00	925	1000
1.60	1.80	27.00	1375	1000
1.60	1.80	30.00	1475	1000
1.60	1.90	33.00	2640	500
2.00	2.00	39.00	3770	500
2.00	2.20	43.00	4795	500
2.00	2.30	47.00	5740	500
2.50	2.50	53.00	7330	250
2.50	2.60	58.00	8820	250
2.50	2.80	66.00	11090	250
2.50	3.00	72.00	13340	250
2.50	3.20	79.00	16420	250
3.15	3.50	90.00	21450	250

DOUBLE STEEL TAPE ARMoured

Nominal Steel Tape Thickness (mm)	Nominal Sheath Thickness (mm)	Approx. Overall Diameter (mm)	Approx. Weight (Kg/Km)	Packing (meters)
0.20	1.80	21.00	625	1000
0.20	1.80	25.00	850	1000
0.20	1.80	27.00	900	1000
0.20	1.80	31.00	1960	500
0.20	2.00	36.00	2730	500
0.20	2.10	40.00	3600	500
0.50	2.30	45.00	4860	500
0.50	2.40	50.00	5890	500
0.50	2.60	55.00	7230	250
0.50	2.70	63.00	9250	250
0.50	2.90	69.00	11330	250
0.50	3.20	76.00	14230	250
0.50	3.40	85.00	17940	250

Tolerance range :

Overall diameter -2%, +8%

Packing ±5%

PVC INSULATED / PVC SHEATHED CABLES

ALUMINIUM CONDUCTORS

STANDARD: IEC 60502 – 1

600/1000 VOLTS



CABLE CORE(S)

Nominal Area mm ²	No. of Wire No.		Approx Conductor Diameter mm		Nominal Insulation Thickness mm	
	Ph	Ne	Ph	Ne	Ph	Ne
3 x25 rm+16	7.00	7.00	6.30	4.98	0.90	0.70
3 x35 sm+16	6.00	7.00	-	4.98	0.90	0.70
3 x50 sm+25	6.00	7.00	-	6.3	1.00	0.90
3 x70 sm+35	12.00	7.00	-	7.41	1.10	0.90
3 x95 sm+50	15.00	19.00	-	8.75	1.10	1.00
3 x120 sm+70	15.00	19.00	-	10.55	1.20	1.10
3 x150 sm+70	15.00	19.00	-	10.55	1.40	1.10
3 x185 sm+95	30.00	19.00	-	12.4	1.60	1.10
3 x240 sm+120	30.00	37.00	-	14	1.70	1.20
3x300 sm+150	30.00	37.00	-	15.47	1.80	1.40
3x400 sm+185	53.00	37.00	-	17.36	2.00	1.60
3 x500 sm++240	53.00	61.00	-	19.89	2.20	1.70

UNARMoured

Nominal Sheath mm	Approx Overall mm	Approx Weight kg/km	Packing meters
1.80	25.00	775	1000
1.80	25.00	750	1000
1.80	29.00	950	1000
1.90	33.00	1275	500
2.10	37.00	1650	500
2.20	40.00	2000	500
2.30	45.00	2425	500
2.50	50.00	3000	500
2.70	55.00	3850	250
2.90	61.00	4650	250
3.10	68.00	5875	250
3.40	76.00	7425	250

CABLE CORE(S)

4 x16 rm	7.00	4.98	0.70
4 x 25 rm	7.00	6.3	0.90
4 x35 sm	6.00	-	0.90
4 x50 sm	6.00	-	1.00
4 x70 sm	12.00	-	1.10
4 x95 sm	15.00	-	1.10
4 x120 sm	15.00	-	1.20
4 x150 sm	15.00	-	1.40
4 x185 sm	30.00	-	1.60
4 x240 sm	30.00	-	1.70
4 x300 sm	30.00	-	1.80
4 x400 sm	53.00	-	2.00
4 x500 sm	53.00	-	2.20

UNARMoured

1.80	22.00	600	1000
1.80	26.00	850	1000
1.80	26.00	800	1000
1.90	30.00	1025	1000
2.00	34.00	1375	500
2.10	38.00	1775	500
2.30	43.00	2200	500
2.40	47.00	2675	500
2.60	52.00	3275	250
2.80	58.00	4225	250
3.00	64.00	5100	250
3.30	73.00	6550	250
3.50	80.00	8175	250

Re: Round Solid

Rm: Round standardised

Sm: Sectoral stranded

Ph: phase Conductor

Ne: Neutral Conductor

For 3 ½ core neutral conductor are round standardised.

For sectoral conductor, number of wire mentioned is minimum number of wire accordance with IEC 60228

Colour code (1)

3 ½ cores :Red, yellow, Blue, Black

4 cores :Red, yellow, Blue, Black

Colour code (2)

3 ½ cores :Blue, Brown, Black, Grey

4 cores :Blue, Brown, Black, Grey



STEEL WIRE ARMoured

Steel Wire Dia. mm	Nominal Sheath Thickness mm	Approx. Overall Diameter mm	Approx. Weight Kg/Km	Packing meters
1.60	1.80	28.00	1475	1000
1.60	1.80	28.00	1450	1000
1.60	1.90	32.00	1775	500
2.00	2.10	37.00	2475	500
2.00	2.20	41.00	2975	500
2.00	2.40	45.00	3500	500
2.50	2.50	50.00	4510	500
2.50	2.70	55.00	5300	250
2.50	2.90	61.00	6400	250
2.50	3.00	66.00	7400	250
3.15	3.40	76.00	9875	250
3.15	3.60	83.00	11875	250

DOUBLE STEEL TAPE ARMoured

Steel Tape Thickness mm	Nominal Sheath Thickness mm	Approx. Overall Diameter mm	Approx. Weight Kg/Km	Packing meters
0.20	1.80	26.00	925	1000
0.20	1.80	26.00	885	1000
0.20	1.90	30.00	1125	1000
0.20	2.00	34.00	1485	500
0.50	2.20	39.00	2225	500
0.50	2.30	43.00	2650	500
0.50	2.50	47.00	3175	500
0.50	2.60	52.00	3800	250
0.50	2.80	58.00	4725	250
0.50	3.00	63.00	5625	250
0.50	3.30	71.00	7000	250
0.50	3.50	78.00	8650	250

STEEL WIRE ARMoured

1.60	1.80	25.00	1200	1000
1.60	1.80	29.00	1575	1000
1.60	1.90	30.00	1550	1000
1.60	2.00	33.00	1875	500
2.00	2.20	39.00	2650	500
2.00	2.30	43.00	3175	500
2.50	2.50	48.00	4175	500
2.50	2.60	52.00	4850	250
2.50	2.80	57.00	8650	250
2.50	3.00	64.00	6900	250
2.50	3.20	70.00	8175	250
3.15	3.50	80.00	10950	250
3.15	3.80	88.00	13000	250

DOUBLE STEEL TAPE ARMoured

0.20	1.80	23.00	725	1000
0.20	1.80	27.00	1000	1000
0.20	1.80	27.00	950	1000
0.20	1.90	31.00	1200	500
0.20	2.10	35.00	1600	500
0.50	2.30	41.00	2400	500
0.50	2.40	45.00	2875	500
0.50	2.60	50.00	3450	500
0.50	2.70	54.00	4000	250
0.50	2.90	60.00	5150	250
0.50	3.10	66.00	6125	250
0.50	3.40	75.00	7700	250
0.80	3.70	84.00	10250	250

Tolerance range :

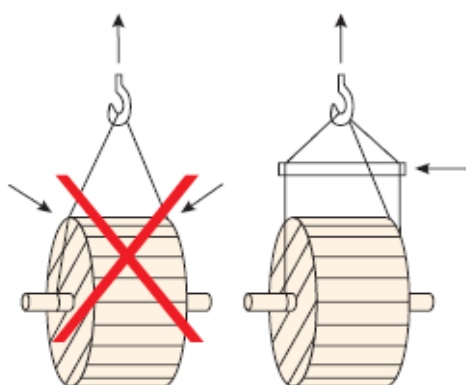
Overall diameter -2% , +8%

Packing $\pm 5\%$

Drum Handling Instructions

The installation of cables and conductors should only be carried out by trained professionals adhering to established engineering practices, recognized codes of practice, applicable statutory regulations, and IEE wiring standards. Additionally, any specific instructions provided by the company must be strictly followed.

Cables are frequently supplied on heavy reels, presenting potential safety risks. Special care should be taken when removing steel binding straps, retaining battens, and timbers, as these processes may expose sharp edges or projecting nails. Proper safety measures must always be observed to mitigate these hazards and ensure safe handling.



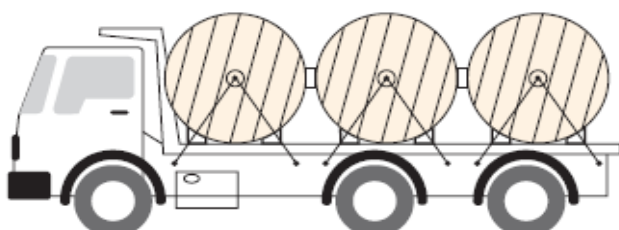
Lifting cable drums using crane.



Do not lay drums flat on their sides, use proper stops to prevent drums rolling.



Lift drums on fork trucks correctly.



Secure drums adequately before transportation.



Roll in the direction shown by the arrow.



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